# Richard E Eitel

List of Publications by Year
in descending order

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|---|---|---|---|
| 41 papers | 4,314 citations | 218677 26 h-index | 361022 35 g-index |
| 41 all docs | 41 docs citations | 41 times ranked | 2956 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Aqueous tape casting of Al2O3 for multilayer co-fired ceramic based microfluidic chips with translucent windows. Ceramics International, 2018, 44, 3488-3491. | 4.8 | 12 |
| 2 | Sintering behavior and biocompatibility of a low temperature coâ€fired ceramic for microfluidic biosensors. International Journal of Applied Ceramic Technology, 2017, 14, 99-107. | 2.1 | 4 |
| 3 | An Integrated Low Temperature Co-Fired Ceramic-Based Clark-Type Oxygen Sensor. IEEE Sensors Journal, 2017, 17, 1590-1595. | 4.7 | 9 |
| 4 | A low temperature co-fired ceramic based microfluidic Clark-type oxygen sensor for real-time oxygen sensing. Sensors and Actuators B: Chemical, 2017, 240, 392-397. | 7.8 | 41 |
| 5 | A Biocompatible Low Temperature Coâ€fired Ceramic Substrate for Biosensors. International Journal of Applied Ceramic Technology, 2014, 11, 436-442. | 2.1 | 7 |
| 6 | Sintering Behavior, Properties, and Applications of Coâ€Fired Piezoelectric/Low Temperature Coâ€Fired Ceramic (<scp>PZT</scp>â€<scp>SKN</scp>/<scp>LTCC</scp>) Multilayer Ceramics. International Journal of Applied Ceramic Technology, 2013, 10, 354-364. | 2.1 | 16 |
| 7 | Suppressing iron oxide nanoparticle toxicity by vascular targeted antioxidant polymer nanoparticles. Biomaterials, 2013, 34, 9615-9622. | 11.4 | 61 |
| 8 | An integrated multilayer ceramic piezoelectric micropump for microfluidic systems. Journal of Intelligent Material Systems and Structures, 2013, 24, 1637-1646. | 2.5 | 24 |
| 9 | Improved Trans-endothelial Electrical Resistance Sensing using Microfluidic Low-Temperature Co-fired Ceramics. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2013, 2013, 000162-000167. | 0.2 | 0 |
| 10 | Biocompatible low temperature co-fired ceramic for biosensors. Additional Conferences (Device) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 | 0.2 | 0 |
| 11 | Synthesis and characterization of poly(antioxidant Î²-amino esters) for controlled release of polyphenolic antioxidants. Acta Biomaterialia, 2012, 8, 2529-2537. | 8.3 | 49 |
| 12 | Biostability of Lowâ€Temperature Coâ€Fired Ceramic Materials for Microfluidic and Biomedical Devices. International Journal of Applied Ceramic Technology, 2012, 9, 60-66. | 2.1 | 16 |
| 13 | Origin and magnitude of the large piezoelectric response in the lead-free (1â€“x)BiFeO<sub>3</sub>â€“xBaTiO<sub>3</sub> solid solution. Journal of Materials Research, 2011, 26, 9-17. | 2.6 | 61 |
| 14 | Lowâ€Temperature Sintering and Properties of 0.98PZTâ€“0.02SKN Ceramics with LiBiO<sub>2</sub> and CuO Addition. Journal of the American Ceramic Society, 2011, 94, 3386-3390. | 3.8 | 28 |
| 15 | Sintering Behavior of Co-fired LTCC/PZT-SKN Multilayer Ceramics for Microfluidic and Lab on Chip Applications. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2011, 2011, 000117-000118. | 0.2 | 0 |
| 16 | Thermal Degradation and Aging of Highâ€Temperature Piezoelectric Ceramics. Journal of the American Ceramic Society, 2010, 93, 1965-1969. | 3.8 | 30 |
| 17 | Active Optical Fiber Alignment with a Piezoelectric Ultrasonic Motor Integrated Into Low Temperature Cofired Ceramics. Journal of Intelligent Material Systems and Structures, 2010, 21, 469-479. | 2.5 | 9 |
| 18 | Progress in engineering high strain lead-free piezoelectric ceramics. Science and Technology of Advanced Materials, 2010, 11, 044302. | 6.1 | 218 |

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|---|---|---|---|
| 19 | Dielectric and Piezoelectric Properties in Mnâ€Modified (1â^'x)BiFeO<sub>3</sub>â€“xBaTiO<sub>3</sub> Ceramics. Journal of the American Ceramic Society, 2009, 92, 2957-2961. | 3.8 | 451 |
| 20 | Magnetic hydrogel nanocomposites as remote controlled microfluidic valves. Lab on A Chip, 2009, 9, 1773. | 6.0 | 133 |
| 21 | Delta-Shaped Piezoelectric Ultrasonic Motor for Two-Dimensional Positioning. Japanese Journal of Applied Physics, 2008, 47, 313. | 1.5 | 11 |
| 22 | Nonlinear contributions to the dielectric permittivity and converse piezoelectric coefficient in piezoelectric ceramics. Journal of Applied Physics, 2006, 99, 124110. | 2.5 | 174 |
| 23 | High temperature piezoelectric materials for actuators and sensors. , 2005, 5761, 279. | | 9 |
| 24 | Integration Concepts for the Fabrication of LTCC Structures. International Journal of Applied Ceramic Technology, 2005, 2, 514-520. | 2.1 | 47 |
| 25 | High Strain Piezoelectric Multilayer Actuators?A Material Science and Engineering Challenge. Journal of Electroceramics, 2005, 14, 177-191. | 2.0 | 231 |
| 26 | Elastic, piezoelectric, and dielectric characterization of modified BiScO/sub 3/-PbTiO/sub 3/ ceramics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 2131-2139. | 3.0 | 167 |
| 27 | Manganese-modified BiScO3â€“PbTiO3 piezoelectric ceramic for high-temperature shear mode sensor. Applied Physics Letters, 2005, 86, 262904. | 3.3 | 170 |
| 28 | Tailoring Properties and Performance of (1-x)BiScO3â€“xPbTiO3Based Piezoceramics by Lanthanum Substitution. Japanese Journal of Applied Physics, 2004, 43, 8146-8150. | 1.5 | 40 |
| 29 | Phase Diagram of the Perovskite System (1â^'x)BiScO3-xPbTiO3. Journal of Applied Physics, 2004, 96, 2828-2831. | 2.5 | 183 |
| 30 | Dielectric and Piezoelectric Properties in the BiScO3â€“PbTiO3â€“PbOÂ·SnO2Ternary System. Japanese Journal of Applied Physics, 2004, 43, 5392-5397. | 1.5 | 28 |
| 31 | Investigation of a high Tc piezoelectric system: (1â^'x)Bi(Mg1/2Ti1/2)O3â€“(x)PbTiO3. Journal of Applied Physics, 2004, 95, 3633-3639. | 2.5 | 190 |
| 32 | Crystal and domain structure of the BiFeO3â€“PbTiO3 solid solution. Journal of Applied Physics, 2003, 94, 3313-3318. | 2.5 | 253 |
| 33 | Lanthanumâ€Modified (1 â€“) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 192 Td (x)(Bi<sub>0.8</sub>La<sub>0.2</sub>)(Ga<su> Crystalline Solutions: Novel Morphotropic Phaseâ€Boundary Leadâ€Reduced Piezoelectrics. Journal of the American Ceramic Society, 2003, 86, 2111-2115. | 3.8 | 67 |
| 34 | Transmission electron microscopy investigation of the high temperature BiScO3â^'PbTiO3 piezoelectric ceramic system. Journal of Applied Physics, 2003, 93, 9271-9274. | 2.5 | 71 |
| 35 | Piezoelectric Properties in the Perovskite BiScO3â€“PbTiO3â€“(Ba,Sr)TiO3Ternary System. Japanese Journal of Applied Physics, 2003, 42, 5181-5184. | 1.5 | 48 |
| 36 | Structural and electrical properties of (1â^'x)Bi(Ga1/4Sc3/4)O3â€“xPbTiO3 piezoelectric ceramics. Journal of Applied Physics, 2003, 94, 605-609. | 2.5 | 62 |

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|---|---|---|---|
| 37 | Preparation and Characterization of High Temperature Perovskite Ferroelectrics in the Solid-Solution (1-x)BiScO3â€“xPbTiO3. Japanese Journal of Applied Physics, 2002, 41, 2099-2104. | 1.5 | 495 |
| 38 | Crystal growth and characterization of new high Curie temperature (1â^'x)BiScO3â€“xPbTiO3 single crystals. Journal of Crystal Growth, 2002, 236, 210-216. | 1.5 | 89 |
| 39 | New High Temperature Morphotropic Phase Boundary Piezoelectrics Based on Bi(Me)O3â€“PbTiO3Ceramics. Japanese Journal of Applied Physics, 2001, 40, 5999-6002. | 1.5 | 809 |
| 40 | Engineering Design in a Materials Processing Laboratory Course through a Guided Case Study. , 0, , . | | 0 |
| 41 | Implementation and Assessment of Process Oriented Guided Inquiry Learning (POGIL) in Large-format Classrooms for Introduction to Materials. , 0, , . | | 1 |